

ABSTRACT OF THE DISCLOSURE

An ethylene copolymer is provided which is a copolymer of ethylene and an α -olefin of 3 to 20 carbon atoms and has the following properties:

(a) the melt index (MI2) at 190°C under a load of 2.16 kg is in the range of 0.0001 to 1000 g/10 min,

(b) the density is not more than 0.899 g/cm³,

(c) the relationship between a vinyl group amount and MI2 of the polymer satisfies the following expression:

(vinyl group amount: number of vinyl groups/1000 carbon atoms) $\leq 0.004509 + 0.000815 \times \log(\text{MI2})$,

and

(d) the relationship between a vinylidene group amount and MI2 of the polymer satisfies the following expression:

(vinylidene group amount: number of vinylidene groups/1000 carbon atoms) $\leq 0.013528 + 0.002445 \times \log(\text{MI2})$.